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      Rachel, Kent Baribault
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Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Cys 20 25

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Arg Ile Ile Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr
20 25 30

Phe Val Tyr Gly Cys Arg Ala Lys Arg Asn Asn Phe Lys Ser Ala 35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala 50

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Phe Met Tyr Gly Gly Cys Gln Gly Lys Gly Asn Asn Phe Lys Ser Ala 35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala

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Phe Tyr Tyr Gly Gly Cys Trp Ala Lys Gly Asn Asn Phe Lys Ser Ala

35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala 55 50

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Phe Met Tyr Gly Gly Cys Trp Gly Asp Gly Asn Asn Phe Lys Ser Ala 40

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala 50 55

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13

13

16

16

Asn Thr Thr Gly Thr Asn Asn Thr 20

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<400> ggcagtt	91 Etag geg
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	95 12 DNA Artificial sequence					
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<210> 105

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Met Gly
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Val Pr	o Met	Leu 20	Ser	Phe	Ala	Arg	Pro 25	Asp	Phe	Cys	Leu	Glu 30	Pro	Pro		
Tyr Th	r Gly 35	Pro	Cys	Lys	Ala	Arg 40	Ile	Ile	Arg	Ţyr	Phe 45	Tyr	Asn	Ala		

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Lys Ala Gly Leu Cys Gln Thr Phe Val Tyr Gly Gly Cys Arg Ala Lys
Arg Asn Asn Phe Lys Ser Ala Glu Asp Cys Met Arg Thr Cys Gly Gly
Ala Ala Glu Gly Asp Asp Pro Ala Lys Ala Ala Phe Asn Ser Leu Gln
                                    90
Ala Ser Ala Thr Glu Tyr Ile Gly Tyr Ala Trp Ala Met Val Val
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Ile Val Gly Ala Thr Ile Gly Ile Lys Leu Phe Lys Lys Phe Thr Ser
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Lys Ala Ser
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      (21)..(21)
      where n can be any nucleotide with the following probabilities:
       (.26 T, .18 C, .26 A, and .30 G)
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      (22)..(22)
<222>
      where n can be any nucleotide with the following probabilities:
<223>
       (.22 T, .16 C, .40 A, and .22 G)
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<222>
      (23)...(23)
<223> where n can be T or G with equal probability
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<220>
<221>
      misc feature
<222>
       (25)..(25)
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<223>
       (.22 T, .16 C, .40 A, and .22 G)
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       (.26 T, .18 C, .26 A, and .30 G)
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       (.22 T, .16 C, .40 A, and .22 G)
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                                                                      64
cgcc
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<220>
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       (.26 T, .18 C, .26 A, and .30 G)
<220>
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      (26) .. (26)
<223> where n can be T or G with equal probability
<220>
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<222> (27)..(27)
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       (.26 T, .18 C, .26 A, and .30 G)
<220>
<221> misc_feature
<222> (28)..(28)
<223> where n can be any nucleotide with the following probabilities:
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<222> (29)..(29)
<223> where n can be T or G with equal probability
<220>
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      (34)..(34)
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      (35)..(35)
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<400> 1.24
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60
gcqaqcqcat gcgtacctgc nnnnnnnnn nnnnngctga aggtgatgat ccggccaaag
                                                                       70
cggccgcgcc
<210> 125
<211>
      76
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      DNA
<213> Artificial sequence
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<223> synthetic oligonucleotide
<220>
<221> misc feature
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       (.26 T, .18 C, .26 A, and .30 G)
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<221> misc_feature
<222>
      (22)..(22)
<223> where nwhere Xaa can be any naturally occurring amino acid with the
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       (.22 T, .16 C, .40 A, and .22 G)
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<221> misc feature
<222> (23)..(23)
<223> where n can be T or G with equal probability
<220>
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      (24)..(24)
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      (26)..(26)
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      (27)..(27)
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<222> (28)..(28)
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       (.22 T, .16 C, .40 A, and .22 G)
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      (29)..(29)
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      (30)..(30)
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following probabilities:
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<220>
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following probabilities:
       (.26 T, .18 C, .26 A, and .30 G)
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<222> (34)..(34)
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following probabilities:
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<222> (35)..(35)
<223> where n can be T or G with equal probability
<220>
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      (37)..(37)
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following probabilities:
       (.22 T, .16 C, .40 A, and .22 G)
<220>
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<221> misc_feature
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      (38)..(38)
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       (.26 T, .18 C, .26 A, and .30 G)
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following probabilities:
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<222> (41)..(41)
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                                                                      60
                                                                      76
ccaaagcggc cgcgcc
<210> 126
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<223>
<400> 126
                                                                      23
ggcgcggccg ctttggccgg atc
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       (30)..(30)
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       (.22 T, .16 C, .40 A, and .22 G)
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      (31)..(31)
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<220>
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      where n can be any nucleotide with the following probabilites:
<223>
       (.26 T, .18 C, .26 A, and .30 G)
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      (33)..(33)
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       (.22 T, .16 C, .40 A, and .22 G)
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      (34)..(34)
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      (35)..(35)
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       (.22 T, .16 C, .40 A, and .22 G)
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ggccgcggta ccgatgctgt cttttgctnn nnnnnnnttc tgtctcgagc gcccgcga
                                                                      58
<210>
      128
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      63
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<222>
      (28)..(28)
<223> where nwhere Xaa can be any naturally occurring amino acid with the
following probabilities:
       (.26 T, .18 C, .26 A, and .30 G)
<220>
<221> misc_feature
<222> (29)..(29)
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<223> where nwhere Xaa can be any naturally occurring amino acid with the
following probabilities:
       (.22 T, .16 C, .40 A, and .22 G)
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<222>
      (30)..(30)
<223> where n can be T or G with equal probability
<220>
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following probabilities:
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following probabilities:
      (.22 T, .16 C, .40 A, and .22 G)
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<220>
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following probabilities:
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<223> where nwhere Xaa can be any naturally occurring amino acid with the
following probabilities:
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<221> misc feature
<222> (36)..(36)
<223> where n can be T or G with equal probability
<220>
<221> misc feature
<222>
      (37)..(37)
<223> where nwhere Xaa can be any naturally occurring amino acid with the
following probabilities:
       (.26 T, .18 C, .26 A, and .30 G)
<220>
<221>
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<222>
      (38)..(38)
<223> where nwhere Xaa can be any naturally occurring amino acid with the
following probabilities:
       (.22 T, .16 C, .40 A, and .22 G)
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<221> misc_feature
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      (39)..(39)
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      where n can be T or G with equal probability
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<222>
      (40)..(40)
<223> where nwhere Xaa can be any naturally occurring amino acid with the
following probabilities:
       (.26 T, .18 C, .26 A, and .30 G)
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<222>
      (41)..(41)
<223> where nwhere Xaa can be any naturally occurring amino acid with the
following probabilities:
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      (42)..(42)
<223> where n can be T or G with equal probability
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gccgcggtac cgatgctgtc ttttgctnnn nnnnnnnnn nnttctgtct cgagcgcccg
                                                                      60
                                                                      63
cga
<210> 129
<211>
      70
<212> DNA
<213> Artificial sequence
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<223> synthetic oligonucleotide
<220>
<221> misc feature
<222>
      (29)..(29)
<223> where n can be any nucleotide with the following probabilites:
       (.26 T, .18 C, .26 A, and .30 G)
<220>
<221> misc feature
<222>
      (30)..(30)
<223> where n can be any nucleotide with the following probabilites:
       (.22 T, .16 C, .40 A, and .22 G)
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<221> misc_feature
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      (31)..(31)
<223> where n can T or G with equal probability
<220>
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<223> where n can be any nucleotide with the following probabilites:
       (.26 T, .18 C, .26 A, and .30 G)
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<221> misc_feature
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<223> where n can be any nucleotide with the following probabilites:
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<220>
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       (.26 T, .18 C, .26 A, and .30 G)
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       (.26 T, .18 C, .26 A, and .30 G)
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      (42)..(42)
      where n can be any nucleotide with the following probabilites:
       (.22 T, .16 C, .40 A, and .22 G)
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<222>
      (43)..(43)
<223> where n can T or G with equal probability
<220>
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<221> misc_feature
<222>
      (44)..(44)
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      (.26 T, .18 C, .26 A, and .30 G)
<220>
<221> misc_feature
<222>
      (45)..(45)
<223> where n can be any nucleotide with the following probabilites:
      (.22 T, .16 C, .40 A, and .22 G)
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<221> misc_feature
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<223> where n can T or G with equal probability
<220>
<221> misc feature
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      (.26 T, .18 C, .26 A, and .30 G)
<220>
<221> misc_feature
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<223> where n can be any nucleotide with the following probabilites:
      (.22 T, .16 C, .40 A, and .22 G)
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<221> misc_feature
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<223> where n can T or G with equal probability
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gcgcccgcga
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<223>
<400> 130
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<210>
      131
<211>
      49
<212> DNA
<213> Artificial sequence
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      synthetic oligonucleotide
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<400> 131
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<210> 132
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                                                                     41
<210> 133
<211> 37
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cgagccggaa gcataaagtg taaagccgac tctagag
<210> 134
<211> 36
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<400> 134
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gatccactcc ccatccccct gttgacaatt aatcat
<210> 135
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<400> 135
cgatgattaa ttgtcaacag ggggatgggg agtg
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<210> 136
<211> 88
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<223> synthetic oligonucleotide
<400> 136
gagetecatg ggagaaaata aaatgaaaca aageacgate geactettae egttaetgtt
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                                                                      88
tacccctgtg acaaaagccc gtccggat
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<210> 137
<211> 22
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<400> 137
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Thr Lys Ala Arg Pro Asp
           20
<210>
      138
<211>
      210
<212> DNA
<213> Artificial sequence
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<223> synthetic oligonucleotide
<400> 138
ggatccggtg gcacttttcg gggaaatgtg cgcggaaccc ctatttgttt atttttctaa
                                                                      60
atacattcaa atatgtatcc gctcatgaga caataaccct gataaatgct tcaataatat
                                                                     120
tgaaaaagga agagtatgag tattcaacat ttccgtgtcg cccttattcc cttttttgcg
                                                                     180
                                                                     210
gcattttgcc ttcctgtttt tgctcatccg
<210> 139
<211> 25
<212> PRT
<213> Artificial sequence
<220>
<223> synthetic peptide
<400> 139
Met Ser Ile Gln His Phe Arg Val Ala Leu Ile Pro Phe Phe Ala Ala
Phe Cys Leu Pro Val Phe Ala His Pro
           20
<210>
      140
<211>
      25
<212> DNA
<213> Artificial sequence
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<223> synthetic oligonucleotide
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<400> 140 gtttcagcgg cgccagaata gaaag	25
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<400> 141	
tattctggcg cccgt	15
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<400> 142	
ccggacgggc gccagaata	19
<210> 143	
<211> 168	
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gcttctgcta ccgaatatat cggttacgcg tgggccatgg tggtggttat cgttggt	act 120
accatcggta tcaaactgtt taagaaattt acttcgaaag cgtcgggc	168
<210> 144	
<211> 58	
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<213> Bos taurus	
<400> 144	
Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Lys Al	a
1 5 10 15	
Arg Ile Ile Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Th	ır
20 25 30	

Phe Val Tyr Gly Gly Cys Arg Ala Lys Arg Asn Asn Phe Lys Ser Ala 35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala 50 55

<210> 145

<211> 58

<212> PRT

<213> Artificial sequence

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<400> 145

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala 1 5 10 15

Met Phe Gln Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr 20 25 30

Phe Val Tyr Gly Cly Cys Met Gly Asn Gly Asn Asn Phe Lys Ser Ala 35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala 50 55

<210> 146

<211> 58

<212> PRT

<213> Artificial sequence

<220>

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<400> 146

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Gly
1 10 15

Phe Phe Ser Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr 20 25 30

Phe Val Tyr Gly Gly Cys Met Gly Asn Gly Asn Asn Phe Lys Ser Ala 35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala

<210> 147

<211> 58

<212> PRT

<213> Bos taurus

<400> 147

Arg Pro Asp Phe Cys Leu Gly Pro Pro Tyr Thr Gly Pro Cys Val Gly 1 5 10 15

Phe Phe Gln Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr 20 25 30

Phe Val Tyr Gly Gly Cys Met Gly Asn Gly Asn Asn Phe Lys Ser Ala 35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala 50 55

<210> 148

<211> 58

<212> PRT

<213> Bos taurus

<400> 148

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala 1 5 10 15

Met Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr 20 25 30

Phe Val Tyr Gly Gly Cys Met Gly Asn Gly Asn Asn Phe Lys Ser Ala 35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala

<210> 149

<211> 58

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic peptide

<400> 149

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala 1 5 10 15

Ile Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr

Phe Val Tyr Gly Gly Cys Met Gly Asn Gly Asn Asn Phe Lys Ser Ala

40 45 35

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala 55 50

<210> 150

<211> 58

<212> PRT <213> Artificial sequence

<220>

<223> synthetic peptide

<400> 150

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala 5 10

Ile Phe Lys Arg Leu Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr 30

Phe Val Tyr Gly Gly Cys Met Gly Asn Gly Asn Asn Phe Lys Ser Ala 35

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala 50 55

<210> 151

<211> 58

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic peptide

<400> 151

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Ile Ala

Phe Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr

Phe Val Tyr Gly Gly Cys Met Gly Asn Gly Asn Asn Phe Lys Ser Ala

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala

<210> 152

<211> 58

<212> PRT

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<220>
<223> synthetic peptide
<400> 152
Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Ile Ala
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Phe Phe Gln Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr
Phe Val Tyr Gly Gly Cys Met Gly Asn Gly Asn Asn Phe Lys Ser Ala
Glu Asp Cys Met Arg Thr Cys Gly Gly Ala
<210> 153
<211> 58
<212> PRT
<213> Artificial sequence
<220>
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<400> 153
Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Ile Ala
Leu Phe Lys Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr
Phe Val Tyr Gly Gly Cys Met Gly Asn Gly Asn Asn Phe Lys Ser Ala
Glu Asp Cys Met Arg Thr Cys Gly Gly Ala
<210> 154
<211> 58
<212> PRT
<213> Artificial sequence
<220>
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Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Met Gly
1 10 15

<400> 154

Phe Ser Lys Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr 20 25 30

Phe Val Tyr Gly Gly Cys Arg Ala Lys Arg Asn Asn Phe Lys Ser Ala 35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala 50 55

<210> 155

<211> 58

<212> PRT

<213> Dendroaspis polylepis polylepis

<400> 155

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Met Ala 1 5 10 15

Leu Phe Lys Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr 20 25 30

Phe Val Tyr Gly Gly Cys Arg Ala Lys Arg Asn Asn Phe Lys Ser Ala 35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala 50 55

<210> 156

<211> 58

<212> PRT

<213> Dendroaspis polylepis polylepis

<400> 156

Arg Pro Asp Phe Cys Leu Glu Pro Pro Asn Thr Gly Pro Cys Phe Ala 1 5 10 15

Ile Thr Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr 20 25 30

Phe Val Tyr Gly Gly Cys Arg Ala Lys Arg Asn Asn Phe Lys Ser Ala 35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala

<210> 157

<211> 58

<212> PRT

<213> Hemachatus hemachates

<400> 157

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Met Ala 1 5 10 15

Leu Phe Gln Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr 20 25 30

Phe Val Tyr Gly Gly Cys Arg Ala Lys Arg Asn Asn Phe Lys Ser Ala 35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala 50 55

<210> 158

<211> 58

<212> PRT

<213> Naja nivea

<400> 158

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Met Ala 1 5 10 15

Ile Ser Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr
20 25 30

Phe Val Tyr Gly Gly Cys Arg Ala Lys Arg Asn Asn Phe Lys Ser Ala 35 40 45

Gly Asp Cys Met Arg Thr Cys Gly Gly Ala 50 55

<210> 159

<211> 58

<212> PRT

<213> Vipera russelli

<400> 159

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala 1 5 10 15

Met Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr 20 25 30

Phe Leu Tyr Gly Cys Lys Gly Lys Gly Asn Asn Phe Lys Ser Ala 35 40 45 Glu Asp Cys Met Arg Thr Cys Gly Gly Ala 50 55

<210> 160

<211> 58

<212> PRT

<213> Caretta caretta

<400> 160

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala 1 5 10 15

Met Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr 20 25 30

Phe Glu Tyr Gly Gly Cys Trp Ala Lys Gly Asn Asn Phe Lys Ser Ala 35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala 50 55

<210> 161

<211> 58

<212> PRT

<213> Helix pomania

<400> 161

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala 1 5 10 15

Met Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr 20 25 30

Phe Gly Tyr Ala Gly Cys Arg Ala Lys Gly Asn Asn Phe Lys Ser Ala 35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala 50 55

<210> 162

<211> 58

<212> PRT

<213> Dendroaspis angusticeps

<400> 162

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala 1 5 10 15

Met Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr

20 25 30

Phe Glu Tyr Gly Gly Cys His Ala Glu Gly Asn Asn Phe Lys Ser Ala 35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala 50 55

<210> 163

<211> 58

<212> PRT

<213> Dendroaspis angusticeps ·

<400> 163

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala 1 5 10 15

Met Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr 20 25 30

Phe Leu Tyr Gly Gly Cys Trp Ala Gln Gly Asn Asn Phe Lys Ser Ala 35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala 50 55

<210> 164

<211> 58

<212> PRT

<213> Dendroaspis polylepis

<400> 164

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala 1 5 . 10 15

Met Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr

Phe Arg Tyr Gly Gly Cys Leu Ala Glu Gly Asn Asn Phe Lys Ser Ala 35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala 50 55

<210> 165

<211> 58

<212> PRT

<213> Dendroaspis polylepis

<400> 165

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala 1 5 10 15

Met Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr 20 25 30

Phe Asp Tyr Gly Gly Cys His Ala Asp Gly Asn Asn Phe Lys Ser Ala 35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala 50 55

<210> 166

<211> 58

<212> PRT

<213> Vipera ammodytes

<400> 166

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala 1 5 10 15

Met Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr 20 25 30

Phe Lys Tyr Gly Gly Cys Leu Ala His Gly Asn Asn Phe Lys Ser Ala 35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala 50 55

<210> 167

<211> 58

<212> PRT

<213> Vipera ammodytes

<400> 167

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala 1 5 10 15

Met Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr 20 25 30

Phe Thr Tyr Gly Gly Cys Trp Ala Asn Gly Asn Asn Phe Lys Ser Ala 35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala 50 55

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<210> 168
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<211> 58

<212> PRT

<213> Bungarus fasciatus

<400> 168

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala 1 5 10 15

Met Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr 20 25 30

Phe Asn Tyr Gly Gly Cys Glu Gly Lys Gly Asn Asn Phe Lys Ser Ala 35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala 50 55

<210> 169

<211> 58

<212> PRT

<213> Anemonia sulcata

<400> 169

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala 1 5 10 15

Met Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr 20 25 30

Phe Gln Tyr Gly Gly Cys Glu Gly Tyr Gly Asn Asn Phe Lys Ser Ala 35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala 50 55

<210> 170

<211> 58

<212> PRT

<213> Homo sapiens

<400> 170

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala 1 5 10 15

Met Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr
20 25 30

Phe Gln Tyr Gly Gly Cys Leu Gly Glu Gly Asn Asn Phe Lys Ser Ala 35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala 50 55

<210> 171

<211> 58

<212> PRT

<213> Homo sapiens

<400> 171

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala 1 5 10 15

Met Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr 20 25 30

Phe His Tyr Gly Gly Cys Trp Gly Gln Gly Asn Asn Phe Lys Ser Ala 35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala 50 55

<210> 172

<211> 58

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic peptide

<400> 172

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala 1 5 10 15

Met Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr
20 25 30

Phe His Tyr Gly Gly Cys Trp Gly Glu Gly Asn Asn Phe Lys Ser Ala 35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala 50 55

<210> 173

<211> 58

<212> PRT

<213> Artificial sequence

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<220>
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<223> synthetic peptide

<400> 173

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala 1 5 10 15

Met Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr 20 25 30

Phe Lys Tyr Gly Gly Cys Trp Gly Lys Gly Asn Asn Phe Lys Ser Ala 35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala 50 55

<210> 174

<211> 58

<212> PRT

<213> Bos taurus

<400> 174

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala 1 5 10 15

Met Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr 20 25 30

Phe Lys Tyr Gly Cys Trp Gly Lys Gly Asn Asn Phe Lys Ser Ala 35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala

<210> 175

<211> 58

<212> PRT

<213> Tachypleus tridentatus

<400> 175

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala 1 5 10 15

Met Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr 20 25 30

Phe Pro Tyr Gly Gly Cys Trp Ala Lys Gly Asn Asn Phe Lys Leu Ala 35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala 50 55

<210> 176 <211> 58 <212> PRT <213> Bombyx mori

<400> 176

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala 5 10

Met Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr 20 25

Phe Lys Tyr Gly Gly Cys Trp Gly His Gly Asn Asn Phe Lys Ser Ala 35 40

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala 50 55

<210> 177

<211> 58

<212> PRT

<213> Bos taurus

<400> 177

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala

Met Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr 20

Phe Asn Tyr Gly Gly Cys Trp Gly Lys Gly Asn Asn Phe Lys Ser Ala 40

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala

<210> 178

<211> 58

<212> PRT

<213> Bos taurus

<400> 178

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala 10

Met Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr 20 25 30

Phe Thr Tyr Gly Gly Cys Leu Gly His Gly Asn Asn Phe Lys Ser Ala 35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala 50 55

<210> 179

<211> 58

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic peptide

<400> 179

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala 1 5 10 15

Met Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr 20 25 30

Phe Thr Tyr Gly Gly Cys Leu Gly Tyr Gly Asn Asn Phe Lys Ser Ala 35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala
50 55

<210> 180

<211> 58

<212> PRT

<213> Bos taurus

<400> 180

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala 1 5 10 15

Met Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr 20 25 30

Phe Lys Tyr Gly Gly Cys Trp Ala Glu Gly Asn Asn Phe Lys Ser Ala 35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala 50 55

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<210> 181
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<211> 58

<212> PRT <213> Bos taurus

<400> 181

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala 5 10

Met Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr

Phe Gly Tyr Gly Gly Cys Trp Gly Glu Gly Asn Asn Phe Lys Ser Ala 40

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala

<210> 182

<211> 58

<212> PRT

<213> Bos taurus

<400> 182

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala 5

Met Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr

Phe Glu Tyr Gly Gly Cys Trp Ala Asn Gly Asn Asn Phe Lys Ser Ala

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala

<210> 183

<211> 58

<212> PRT

<213> Bos taurus

<400> 183

Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Val Ala

Met Phe Pro Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr 20

Phe Val Tyr Gly Gly Cys His Gly Asp Gly Asn Asn Phe Lys Ser Ala

45

40

35

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala 50 55 <210> 184 <211> 13 <212> DNA <213> Artificial sequence <220> <223> synthetic oligonucleotide <220> misc_feature <221> <222> (5)..(9) where n can be any nucleotide <223> <400> 184 13 ggccnnnnng gcc 185 <210> <211> 536 <212> DNA <213> Bos taurus <400> 185 60 cggaccqtat ccaggettta caetttatge tteeggeteg tataattgga attgtgageg gataacaatt cctaggaggc tcactatgaa gaaatctctg gttcttaagg ctagcgttgc 120 tgtegegace etggtacega tgetgtettt tgetegteeg gatttetgte tegageegee 180 atatactggg ccctgcaaag cgcgcatcat ccgttatttc tacaacgcta aagcaggcct 240 gtgccagacc tttgtatacg gtggttgccg tgctaagcgt aacaacttta aatcggccga 300 agattgcatg cgtacctgcg gtggcgccgc tgaaggtgat gatccggcca aagcggcctt 360 taactctctg caagcttctg ctaccgaata tatcggttac gcgtgggcca tggtggtggt 420 tatcgttggt gctaccatcg gtatcaaact gtttaagaaa tttacttcga aagcgtctta 480 536 atagtgaggt taccagtcta agcccgccta atgagcgggc tttttttttc ctgagg <210> 186 <211> 536 <212> DNA <213> Bos taurus <400> 186 cggaccgtat ccaggettta cactttatge ttccggetcg tataattgga attgtgagcg 60

gataacaatt cctaggaggc tcactatgaa gaaatctctg gttcttaagg ctagcgttgc

tgtegegace etggtacega tgetgtettt tgetegteeg gatttetgte tegageegee

120

180

atatactggg ccctgcaaag cgcgcatcat ccgttatttc tacaacgcta aagcaggcct 240 gtgccagacc tttgtatacg gtggttgccg tgctaagcgt aacaacttta aatcggccga 300 agattgcatg cgtacctgcg gtggcgccgc tgaaggtgat gatccggcca aagcggcctt 360 taactctctg caagcttctg ctaccgaata tatcggttac gcgtgggcca tggtggtggt 420 tatcgttggt gctaccatcg gtatcaaact gtttaagaaa tttacttcga aagcgtctta 480 atagtgaggt taccagtcta agcccgccta atgaggggc ttttttttc ctgagg 536

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<211> 7
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<213> Artificial sequence
<220>
<223> synthetic peptide
<220>
<221> MISC FEATURE
<222> (5)..(5)
<223> where x is a stop encoded by TAA
<220>
<221> MISC FEATURE
<222> (6)..(6)
<223> where x is a stop encoded by TAG
<220>
<221> MISC FEATURE
<222>
     (7)..(7)
<223> where x is a stop encoded by TGA
<400> 187
Ser Lys Ala Ser Xaa Xaa Xaa
<210> 188
<211> 176
<212> DNA
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<400> 188
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aattgtgagc ggataacaat tcctagggcc gctccttcga aagcgtctta atagtgaggt
                                                                    120
taccagtcta agcccgccta atgagcgggc tttttttttc ctgaggcagg tgagcg
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<210> 189 <211> 176

<210> 187

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aattgtg	gagc	ggata	acaat	tcctag	ggcc	gctc	cttcga	aagcg	tctta	atagt	gaggt	120
taccagt	cta	agccc	gccta	atgago	gggc	tttt	ttttc	ctgag	gcagg	tgago	g	176
	190 89 DNA Arti	ficia	ıl seq	uence								
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cactatt	aag	acgct	ttcga	aggago	ggc							89
	191 171 DNA Arti	ificia	al seq	uence								
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gtcgcga	accc	tggta	ccgat	gctgto	ctttt	gctc	gtccgg	atttc	tgtct	cgago	ccgcca	120
tatacto	gggc	cctg	caaagc	gcgcat	catc	cgta	cttcga	aagcg	gctgc	g		171
<210> <211> <212> <213>	192 45 PRT Art:	ificia	al seq	uence								
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<400>	192											
Met Lys 1	s Lys	s Ser	Leu V 5	al Leu	Lys :	Ala S		Ala V	al Ala	a Thr 15	Leu	
			_, _						1 D	_		

Val Pro Met Leu Phe Ala Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr 20 25 30

Thr Gly Pro Cys Lys Ala Arg Ile Ile Arg Thr Ser Lys 35 40 45

<210> <211> <212>	193 171 DNA						
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<220> <223>	synt	thetic oligo	onucleotide				
<400>	193						
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gtcgcga	accc	tggtaccgat	gctgtctttt	gctcgtccgg	atttctgtct	cgagccgcca	120
tatacto	gggc	cctgcaaagc	gcgcatcatc	cgtacttcga	aagcggctgc	g	171
<210><211><211><212><212>	194 96 DNA Arti	ificial sequ	1ence				
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<400>	194						
cgcagc	cgct	ttcgaagtac	ggatgatgcg	cgctttacgg	ggcccagtat	atggcggctc	60
gagaca	gaaa	tccggacgag	caaaagacag	catcgg			96
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ccctgc	acag	cgcgcatcat	ccgttatttc	tacaacgcta	aagcaggcct	gtgccagacc	60
tttgta	tacg	gtggttgccg	tgctaagcgt	aacaacttta	aatcggccga	agattgcatg	120
cgtacc	tgcg	gtggcgccgc	tgaatttact	tcgaaagcgt	cgccg		165
<210><211><211><212><213>	196 46 PRT Art:	ificial sequ	lence				
<223>	syn	thetic pept:	ide				
<400>	196						

Ala Arg Ile Ile Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln

10

1

5

<223> synthetic peptide

15

Thr Phe Val Tyr Gly Gly Cys Arg Ala Lys Arg Asn Asn Phe Lys Ser 20 25 30 Ala Glu Asp Cys Met Arg Thr Cys Gly Gly Ala Thr Ser Lys 40 <210> 197 <211> 165 <212> DNA <213> Artificial sequence <220> <223> synthetic oligonucleotide <400> 197 ccctgcacag cgcgcatcat ccgttatttc tacaacgcta aagcaggcct gtgccagacc 60 tttgtatacg gtggttgccg tgctaagcgt aacaacttta aatcggccga agattgcatg 120 165 cgtacctgcg gtggcgccgc tgaatttact tcgaaagcgt cgccg <210> 198 <211> 97 <212> DNA <213> Artificial sequence <220> <223> synthetic oligonucleotide <400> 198 cggcgacgct ttcgaagtaa attctgcggc gccaccgcag gtacgcatgc aatcttcggc 60 cgatttaaag ttgttacgct tagcacggca accaccg 97 <210> 199 <211> 96 <212> DNA <213> Artificial sequence <220> <223> synthetic oligonucleotide <400> 199 cgcagccgct ttcgaagtac ggatgatgcg cgctttacgg ggcccagtat atggcggctc 60 96 gagacagaaa tccggacgag caaaagacag catcgg <210> 200 <211> 50 <212> PRT <213> Artificial sequence <220>

<400> 200

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Gln Ala Ser Ala Thr Glu Tyr Ile Gly Tyr Ala Trp Ala Met Val Val
            20
Val Ile Val Gly Ala Thr Ile Gly Ile Lys Leu Phe Lys Lys Phe Thr
                            40
Ser Lys
    50
<210> 201
<211>
      96
<212> DNA
<213> Artificial sequence
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       synthetic oligonucleotide
<223>
<400> 201
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                                                                       60
                                                                       96
gagacagaaa tccggacgag caaaagacag catcgg
<210>
      202
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       93
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      DNA
<213> Artificial sequence
<220>
<223>
      synthetic oligonucleotide
tcaagacgct ttcgaagtaa atttcttaaa cagtttgata ccgatggtag caccaacgat
                                                                       60
aaccaccacc atggcccacg cgtaaccgat ata
                                                                       93
<210> 203
<211>
      41
<212>
      PRT
<213> Artificial sequence
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<223> synthetic peptide
<220>
<221> MISC_FEATURE
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       (6)..(6)
       where Xaa is encoded by a codon where residue 1 can be (.26 T, .18
<223>
       C, .26 A, and .30 G), residue 2 can be (.22 T, .16 C, .40 A, and
       .22 G), and residue 3 can be equal probability of T or G.
```

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<sup>-</sup><220>
<221>
       MISC FEATURE
<222>
       (8)..(8)
       where Xaa is encoded by a codon where residue 1 can be (.26 T, .18
       C, .26 A, and .30 G), residue 2 can be (.22 T, .16 C, .40 A, and
       .22 G), and residue 3 can be equal probability of T or G.
<220>
<221>
       MISC_FEATURE
<222>
       (16)..(16)
<223>
       where Xaa is encoded by a codon where residue 1 can be (.26 T, .18
       C, .26 A, and .30 G), residue 2 can be (.22 T, .16 C, .40 A, and
       .22 G), and residue 3 can be equal probability of T or G.
<220>
<221> MISC FEATURE
<222>
       (18)..(18)
<223> where Xaa is encoded by a codon where residue 1 can be (.26 T, .18
       C, .26 A, and .30 G), residue 2 can be (.22 T, .16 C, .40 A, and
       .22 G), and residue 3 can be equal probability of T or G.
<220>
<221> MISC_FEATURE
<222>
       (23)..(23)
       where Xaa is encoded by a codon where residue 1 can be (.26 T, .18
<223>
       C, .26 A, and .30 G), residue 2 can be (.22 T, .16 C, .40 A, and
       .22 G), and residue 3 can be equal probability of T or G.
<220>
<221> MISC FEATURE
<222>
       (37)..(37)
       where Xaa is encoded by a codon where residue 1 can be (.26 T, .18
<223>
       C, .26 A, and .30 G), residue 2 can be (.22 T, .16 C, .40 A, and
        .22 G), and residue 3 can be equal probability of T or G.
<400>
      203
Gly Pro Cys Lys Ala Xaa Ile Xaa Arg Tyr Phe Tyr Asn Ala Lys Xaa
Gly Xaa Cys Gln Thr Phe Xaa Tyr Gly Gly Cys Arg Ala Lys Arg Asn
Asn Phe Lys Ser Xaa Glu Asp Cys Met
        35
<210>
       204
<211>
       130
<212> DNA
<213> Artificial sequence
<220>
<223> synthetic oligonucleotide
<220>
<221> misc_feature
<222> (22)..(22)
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<223> where nwhere Xaa can be any naturally occurring amino acid with the
following probabilities:
       (.26 T, .18 C, .26 A, and .30 G)
<220>
<221> misc_feature
<222>
      (23)..(23)
<223> where nwhere Xaa can be any naturally occurring amino acid with the
following probabilities:
       (.22 T, .16 C, .40 A, and .22 G)
<220>
<221> misc_feature
<222> (24)..(24)
<223> where n can be T or G with equal probability
<220>
<221> misc feature
<222> (28)..(28)
<223> where nwhere Xaa can be any naturally occurring amino acid with the
following probabilities:
      (.26 T, .18 C, .26 A, and .30 G)
<220>
<221> misc_feature
<222> (29)..(29)
<223> where nwhere Xaa can be any naturally occurring amino acid with the
following probabilities:
       (.22 T, .16 C, .40 A, and .22 G)
<220>
<221> misc feature
<222> (30)..(30)
<223> where n can be T or G with equal probability
<220>
<221> misc_feature
<222>
      (52)..(52)
<223> where nwhere Xaa can be any naturally occurring amino acid with the
following probabilities:
    (.26 T, .18 C, .26 A, and .30 G)
<220>
<221> misc feature
<222>
      (53)..(53)
<223> where nwhere Xaa can be any naturally occurring amino acid with the
following probabilities:
       (.22 T, .16 C, .40 A, and .22 G)
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<221> misc_feature
<222>
      (54)..(54)
<223> where n can be T or G with equal probability
<220>
<221> misc_feature
      (58)..(58)
<222>
<223> where nwhere Xaa can be any naturally occurring amino acid with the
following probabilities:
       (.26 T, .18 C, .26 A, and .30 G)
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<220>

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<221> misc feature
      (59)..(59)
<222>
<223> where nwhere Xaa can be any naturally occurring amino acid with the
following probabilities:
       (.22 T, .16 C, .40 A, and .22 G)
<220>
<221> misc_feature
<222> (60)..(60)
<223> where n can be T or G with equal probability
<220>
<221> misc_feature
<222> (73)..(73)
<223> where nwhere Xaa can be any naturally occurring amino acid with the
following probabilities:
       (.26 T, .18 C, .26 A, and .30 G)
<220>
<221> misc feature
<222> (74)..(74)
<223> where nwhere Xaa can be any naturally occurring amino acid with the
following probabilities:
       (.22 T, .16 C, .40 A, and .22 G)
<220>
<221> misc feature
<222>
      (75)..(75)
<223> where n can be T or G with equal probability
<220>
<221> misc feature
<222>
      (115)..(115)
<223> where nwhere Xaa can be any naturally occurring amino acid with the
following probabilities:
       (.26 T, .18 C, .26 A, and .30 G)
<220>
<221> misc feature
<222>
      (116)..(116)
<223> where nwhere Xaa can be any naturally occurring amino acid with the
following probabilities:
       (.22 T, .16 C, .40 A, and .22 G)
<220>
<221> misc feature
<222>
      (117)..(117)
      where n can be T or G with equal probability
<223>
<400> 204
caccetggge cetgeaaage gnnnatennn egttattet acaaegetaa annnggtnnn
                                                                       60
tgccagacct tcnnntacgg tggttgccgt gctaagcgta acaactttaa atctnnngag
                                                                      120
                                                                      130
gattgcatgc
       205
<210>
<211>
       78
<212>
       DNA
<213> Artificial sequence
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<220>
      synthetic oligonucleotide
<223>
<220>
<221>
      misc_feature
<222>
      (22)..(22)
<223> where n is a nucleotide with equal probability of being C or A
<220>
<221> misc_feature
<222>
      (23)..(23)
<223> where n is a nucleotide complementary to a nucleotide that can be
       any nucleotide with the following probabilities: (.22 T, .16 C,
       .40 A, and .22 G)
<220>
<221> misc feature
      (24)..(24)
<222>
<223> where n is a nucleotide complementary to a nucleotide that can be
       any nucleotide with the following probabilities: (.26 T, .18 C,
       .26 A, and .30 G)
<220>
<221> misc feature
<222>
      (64)..(64)
<223> where n is a nucleotide with equal probability of being C or A
<220>
<221> misc feature
<222>
      (65)..(65)
<223> where n is a nucleotide complementary to a nucleotide that can be
       any nucleotide with the following probabilities: (.22 T, .16 C,
       .40 A, and .22 G)
<220>
<221> misc feature
<222>
      (66)..(66)
<223> where n is a nucleotide complementary to a nucleotide that can be
       any nucleotide with the following probabilities: (.26 T, .18 C,
       .26 A, and .30 G)
<400>
      205
ccacccacgc atgcaatcct cnnncgattt aaagttgtta cgcttagcac ggcaaccacc
gtannngaag gtctggca
                                                                      78
<210>
       206
<211>
      53
<212>
      PRT
<213> Artificial sequence
<220>
<223>
       synthetic peptide
<400> 206
Leu Glu Pro Pro Tyr Thr Gly Pro Cys Lys Ala Asp Ile Gln Arg Tyr
                5
                                    10
                                                        15
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Phe Tyr Asn Ala Lys Glu Gly Leu Cys Gln Thr Phe Ser Tyr Gly Gly 25 20 Cys Arg Ala Lys Arg Asn Asn Phe Lys Ser Trp Glu Asp Cys Met Arg 40 Thr Cys Gly Gly Ala <210> 207 <211> 159 <212> DNA <213> Artificial sequence <220> <223> synthetic oligonucleotide <400> 207 60 ctcgagccgc catatactgg gccctgcaaa gcggatatcc agcgttattt ctacaacgct aaagagggcc tgtgccagac cttttcgtac ggtggttgcc gtgctaagcg taacaacttt 120 159 aaatcgtggg aagattgcat gcgtacctgc ggtggcgcc <210> 208 <211> 41 <212> PRT <213> Artificial sequence <220> <223> synthetic peptide <220> <221> MISC FEATURE <222> (4)..(4) <223> where Xaa is an amino acid encoded by equal probability of CAA, CGA, AAA or AGA <220> <221> MISC FEATURE <222> (7)..(7) <223> where Xaa is an amino acid encoded by equal probability of AAA, GAA, ATA or GTA <220> <221> MISC_FEATURE <222> (9)..(9) <223> where Xaa is an amino acid encoded by a codon where the nucleotide in position 1 has an equal possibility of being A or G, the nucleotide in position 2 has an equal possiblility of being C, A, or G, and the nucleotide in position 3 can be T or G <220> <221> MISC_FEATURE <222> (10)..(10) <223> where Xaa is an amino acid encoded by a codon with equal possibility of being TTT or TAT

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<220>
<221>
      MISC FEATURE
<222>
      (17)..(17)
      where Xaa is encoded by a codon where residue 1 can be (.26 T, .18
<223>
      C, .26 A, and .30 G), residue 2 can be (.22 T, .16 C, .40 A, and
       .22 G), and residue 3 can be equal probability of T or G.
<220>
<221> MISC_FEATURE
<222>
      (20)..(21)
<223> where Xaa is encoded by a codon where residue 1 can be (.26 T, .18
      C, .26 A, and .30 G), residue 2 can be (.22 T, .16 C, .40 A, and
      .22 G), and residue 3 can be equal probability of T or G.
<220>
<221> MISC FEATURE
<222>
      (38)..(38)
<223> where Xaa is encoded by a codon where residue 1 can be (.26 T, .18
      C, .26 A, and .30 G), residue 2 can be (.22 T, .16 C, .40 A, and
       .22 G), and residue 3 can be equal probability of T or G.
<400> 208
Gly Pro Cys Xaa Ala Asp Xaa Gln Xaa Xaa Phe Tyr Asn Ala Lys Glu
                5
Xaa Leu Cys Xaa Xaa Phe Ser Tyr Gly Gly Cys Arg Ala Lys Arg Asn
                                25
Asn Phe Lys Ser Trp Xaa Asp Cys Met
       35
<210> 209
<211> 132
<212> DNA
<213> Artificial sequence
<220>
<223> synthetic oligonucleotide
<220>
<221> misc_feature
      (18)..(18)
<222>
<223> where n has an equal probability of being C or A
<220>
<221> misc_feature
<222>
      (19)..(19)
<223> where n has an equal probability of being G or A
<220>
      misc feature
<221>
<222>
       (27)..(27)
<223> where n has an equal probability of being G or A
<220>
<221> misc feature
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<222>
      (28)..(28)
<223> where n has an equal probability of being T or A
<220>
<221> misc_feature
<222>
      (33)..(33)
<223> where n has an equal probability of being G or A
<220>
<221> misc_feature
<222> (34)..(34)
<223> where n has an equal probability of being G, C, or A
<220>
<221> misc_feature
<222> (35)..(35)
<223> where n has an equal probability of being G or T
<220>
<221> misc feature
<222> (37)..(37)
<223> where n has an equal probability of being A or T
<220>
<221> misc feature
<222>
     (57)..(57)
<223> where n can be any nucleotide, with the following probabilities:
       (.26 T, .18 C, .26 A, and .30 G)
<220>
<221> misc feature
<222> (58)..(58)
<223> where n can be any nucleotide, with the following probabilities:
       (.22 T, .16 C, .40 A, and .22 G)
<220>
<221> misc feature
<222> (59)..(59)
<223> where n has an equal probability of being T or G
<220>
<221> misc_feature
<222>
      (66)..(66)
<223> where n can be any nucleotide, with the following probabilities:
       (.26 T, .18 C, .26 A, and .30 G)
<220>
<221> misc_feature
<222>
      (67)..(67)
      where n can be any nucleotide, with the following probabilities:
<223>
       (.22 T, .16 C, .40 A, and .22 G)
<220>
<221> misc_feature
<222>
      (68)..(68)
<223> where n has an equal probability of being T or G
<220>
<221>
      misc_feature
<222>
       (69)..(69)
      where n can be any nucleotide, with the following probabilities:
<223>
       (.26 T, .18 C, .26 A, and .30 G)
```

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<220>
<221> misc_feature
<222>
      (70)..(70)
<223> where n can be any nucleotide, with the following probabilities:
       (.22 T, .16 C, .40 A, and .22 G)
<220>
<221> misc_feature
<222>
      (71)..(71)
<223> where n has an equal probability of being T or G
<220>
<221> misc_feature
<222> (120)..(120)
<223> where n can be any nucleotide, with the following probabilities:
       (.26 T, .18 C, .26 A, and .30 G)
<220>
<221> misc_feature
<222> (121)..(121)
<223> where n can be any nucleotide, with the following probabilities:
       (.22 T, .16 C, .40 A, and .22 G)
<220>
<221> misc_feature
<222>
     (122)..(122)
<223> where n has an equal probability of being T or G
<400> 209
cggcacgcgg gccctgcnna gcggatnnac agnnntnttt ctacaacgct aaagagnnnc
                                                                      60
tgtgcnnnnn nttttcgtac ggtggttgcc gtgctaagcg taacaacttt aaatcgtggn
                                                                     120
nngattgcat gc
                                                                     132
<210> 210
<211> 61
<212> DNA
<213> Artificial sequence
<220>
<223> synthetic oligonucleotide
<220>
<221> misc_feature
<222> (19)..(19)
<223> where n is a nucleotide with equal chance being C or A
<220>
<221> misc_feature
<222>
      (20)..(20)
<223> where n is a nucleotide complementary to a nucleotide having the
       probabilities : .22 T, .16 C, .40 A, or .22 G
<220>
<221> misc_feature
<222>
      (21)..(21)
<223> where n is a nucleotide complementary to a nucleotide having the
       probabilities : .26 T, .18 C, .26A, or .30 G
```

```
<400> 210
cqtccaqcqc atqcaatcnn nccacqattt aaaqttqtta cgcttagcac ggcaaccacc
                                                                      60
                                                                      61
g
<210> 211
<211> 53
<212> PRT
<213> Artificial sequence
<220>
<223> synthetic peptide
<400> 211
Leu Glu Pro Pro Tyr Thr Gly Pro Cys Glu Ala Asp Val Gln Asn Phe
               5
                                    10
Phe Tyr Asn Ala Lys Glu Phe Leu Cys Ser Ala Phe Ser Tyr Gly Gly
           20
                                25
Cys Arg Ala Lys Arg Asn Asn Phe Lys Ser Trp Gln Asp Cys Met Arg
Thr Cys Gly Gly Ala
   50
<210> 212
<211> 159
<212> DNA
<213> Artificial sequence
<220>
<223> synthetic oligonucleotide
<400> 212
ctcgagccgc catatactgg gccctgcgag gcggatgttc agaatttttt ctacaacgct
aaagagtttc tgtgctctgc tttttcgtac ggtggttgcc gtgctaagcg taacaacttt
                                                                     120
                                                                     159
aaatcgtggc aggattgcat gcgtacctgc ggtggcggc
<210> 213
<211> 36
<212> PRT
<213> Artificial sequence
<220>
<223> synthetic peptide
<220>
<221> MISC_FEATURE
<222>
      (4)..(4)
<223> where Xaa is an amino acid with encoded by AAG, ACG, CAG, CCG, GAG,
```

or GCG with equal probability.

<220>

<221> MISC FEATURE

<222> (6)..(6)

- <223> where Xaa is an amino acid with encoded by AAG, ACG, CAG, CCG, GAG, or GCG with equal probability.
- <220>
- <221> MISC_FEATURE
- <222> (12)...(12)
- <223> where Xaa is an amino acid encoded by a codon where the nucleotide in position 1 has an equal possibility of being A or G, the nucleotide in position 2 has an equal possiblility of being C, A, or G, and the nucleotide in position 3 can be T or G
- <220>
- <221> MISC FEATURE
- <222> (16)..(16)
- <223> where X is an amino acid encoded by TTT, TATK TGT, TAG, TGG, or TTG with equal probability.
- <220>
- <221> MISC FEATURE
- <222> (22)..(22)
- <223> where Xaa is an amino acid encoded by AAG, CAG, or GAG with equal probability
- <220>
- <221> MISC FEATURE
- <222> (24)..(24)
- <223> where Xaa is an amino acid encoded by TTT, TTG, ATT, ATG, CTT, CTG,
 GTT, or GTG with equal probability
- <220>
- <221> MISC_FEATURE
- <222> (27)..(27)
- <223> where Xaa is an amino acid encoded by a codon where the nucleotide in position 1 has an equal possibility of being A or G, the nucleotide in position 2 has an equal possiblility of being C, A, or G, and the nucleotide in position 3 can be T or G
- <220>
- <221> MISC FEATURE
- <222> (29)..(29)
- <223> where Xaa is an amino acid encoded by a codon where the nucleotide in position 1 has an equal possibility of being A or G, the nucleotide in position 2 has an equal possiblility of being C, A, or G, and the nucleotide in position 3 can be T or G
- <400> 213

Leu Glu Pro Xaa Tyr Xaa Gly Pro Cys Glu Ala Xaa Val Gln Asn Xaa 1 5 10 15

Phe Tyr Asn Ala Lys Xaa Phe Xaa Cys Ser Xaa Phe Xaa Tyr Gly Gly 20 25 30

Cys Arg Ala Lys

```
<210> 214
<211>
      117
<212>
      DNA
<213> Artificial sequence
<220>
<223> synthetic oligonucleotide
<220>
<221> misc_feature
<222> (18)..(18)
<223> where n has an equal probability of being A, C, or G
<220>
<221> misc_feature
<222> (19)..(19)
<223> where n has an equal probability of being {\tt C} or {\tt A}
<220>
<221> misc_feature
<222>
      (24)..(24)
<223> where n has an equal probability of being A, C, or G
<220>
<221> misc feature
<222> (25)..(25)
<223> where n has an equal probability of being C or A
<220>
<221> misc feature
<222> (42)..(42)
<223> where n can be any nucleotide with the following probabilities:
       (.26 T, .18 C, .26 A, and .30 G)
<220>
<221> misc feature
<222>
      (43)..(43)
<223> where n can be any nucleotide with the following probabilities:
       (.22 T, .16 C, .40 A, and .22 G)
<220>
<221> misc feature
<222>
      (44)..(44)
<223> where n has an equal probability of being G, or T
<220>
<221> misc feature
<222>
      (55)..(55)
<223> where n has an equal probability of being A, G, or T
<220>
<221>
      misc_feature
<222>
      (56)..(56)
<223> where n has an equal probability of being G, or T
<220>
<221> misc_feature
<222>
      (72)..(72)
<223> where n has an equal probability of being A, C, or G
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```
<220>
<221> misc feature
<222>
      (78)..(78)
<223> where n has an equal probability of being A, C, G or T
<220>
<221> misc_feature
<222> (80)..(80)
<223> where n has an equal probability of being G, or T
<220>
<221> misc_feature
      (87)..(87)
<222>
<223> where n can be any nucleotide with the following probabilities:
      (.26 T, .18 C, .26 A, and .30 G)
<220>
<221> misc_feature
<222> (88)..(88)
<223> where n can be any nucleotide with the following probabilities:
      (.22 T, .16 C, .40 A, and .22 G)
<220>
<221> misc_feature
<222> (89)..(89)
<223> where n has an equal probability of being G, or T
<220>
<221> misc feature
<222> (93)..(93)
<223> where n can be any nucleotide with the following probabilities:
       (.26 T, .18 C, .26 A, and .30 G)
<220>
<221> misc_feature
      (94)..(94)
<222>
<223> where n can be any nucleotide with the following probabilities:
       (.22 T, .16 C, .40 A, and .22 G)
<220>
<221> misc feature
<222>
      (95)..(95)
<223> where n has an equal probability of being G, or T
<400> 214
cgagcctgct cgagccgnng tatnnggggc cctgcgaggc gnnngttcag aattnnttct
                                                                      60
                                                                     117
acaacgccaa gnagtttntn tgctctnnnt ttnnntacgg tggttgccgt gctaagc
<210> 215
<211>
      67
<212> DNA
<213> Artificial sequence
<220>
<223> synthetic oligonucleotide
<220>
<221> misc feature
```

```
<222>
      (31)..(31)
      where n has an equal possibility of being C or A
<223>
<220>
<221>
      misc_feature
<222>
      (32)..(32)
<223>
      where n is a nucleotide complimentary to a residue that can be
      any nucleotide with the following probabilities: (.22 T, .16 C,
       .40 A, and .22 G)
<220>
<221> misc_feature
<222>
      (33)..(33)
<223> where n is a nucleotide complimentary to a residue that can be
      any nucleotide with the following probabilities: (.26 T, .18 C,
      .26 A, and .30 G)
<220>
<221> misc_feature
<222> (37)..(37)
<223> where n has an equal possibility of being C or A
<220>
<221> misc_feature
<222>
      (38)..(38)
<223> where n is a nucleotide complimentary to a residue that can be
      any nucleotide with the following probabilities: (.22 T, .16 C,
      .40 A, and .22 G)
<220>
<221> misc feature
<222>
      (39)..(39)
<223> where n is a nucleotide complimentary to a residue that can be
      any nucleotide with the following probabilities: (.26 T, .18 C,
       .26 A, and .30 G)
<220>
<221> misc feature
<222> (46)..(46)
<223> where n has an equal possibility of being C or A
<220>
<221> misc_feature
<222> (48)..(48)
<223> where n has an equal possibility of being C, A, G, or T
<220>
<221> misc_feature
<222>
      (54)..(54)
<223> where n has an equal possibility of being T, G, or C
cggccagcgc ttagcacggc aaccaccgta nnnaaannna gagcananaa actncttggc
                                                                       60
                                                                       67
gttgtag
<210> 216
<211> 53
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<212> PRT

<213> Artificial sequence

<220> synthetic peptide <223> <400> 216 Leu Glu Pro Glu Tyr Gln Gly Pro Cys Glu Ala Ala Val Gln Asn Trp Phe Tyr Asn Ala Lys Gln Phe Met Cys Ser Leu Phe His Tyr Gly Gly 20 25 Cys Arg Ala Lys Arg Asn Asn Phe Lys Ser Trp Gln Asp Cys Met Arg 40 Thr Cys Gly Gly Ala 50 <210> 217 <211> 159 <212> DNA <213> Artificial sequence <220> <223> synthetic oligonucleotide <400> 217 ctcqaqccqq agtatcaggg gccctgcgag gcggctgttc agaattggtt ctacaacgct aaacagttta tgtgctctct ttttcattac ggtggttgcc gtgctaagcg taacaacttt 120 159 aaatcgtggc aggattgcat gcgtacctgc ggtggcgcc <210> 218 <211> 582 <212> DNA <213> Artificial sequence <220> synthetic oligonucleotide <223> <400> 218 60 gaattegage teggtaceeg gggateetet agagtegget ttacaettta tgetteegge 120 tcgtataatg tgtggaattg tgagcgctca caattgagct cagaggctta ctatgaagaa atctctggtt cttaaggcta gcgttgctgt cgcgaccctg gtacctatgt tgtccttcgc 180 240 tcgtccggat ttctgtctcg agccaccata cactgggccc tgcaaagcgc gcatcatccg 300 ctatttctac aatgctaaag caggcctgtg ccagaccttt gtatacggtg gttgccgtgc taagogtaac aactttaaat oggoogaaga ttgoatgogt acctgoggtg gogoogotga 360 aggtgatgat ceggeeaagg eggeetteaa ttetetgeaa gettetgeta eegagtatat 420

tggttacgcg tgggccatgg tggtggttat cgttggtgct accatcggga tcaaactgtt

```
caaqaaqttt acttcgaagg cgtcttaatg atagggttac cagtctaagc ccgcctaatg
                                                                     540
                                                                     582
agcgggcttt ttttttatcg agacctgcag gcatgcaagc tt
<210>
      219
<211>
      582
<212>
      DNA
<213> Artificial sequence
<220>
<223> synthetic oligonucleotide
<400> 219
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                                                                     120
tcgtataatg tgtggaattg tgagcgctca caattgagct cagaggctta ctatgaagaa
                                                                     180
atctctggtt cttaaggcta gcgttgctgt cgcgaccctg gtacctatgt tgtccttcgc
tegteeggat ttetgteteg agceaceata caetgggeee tgeaaagege geateateeg
                                                                     240
                                                                     300
ctatttctac aatgctaaag caggcctgtg ccagaccttt gtatacggtg gttgccgtgc
taagcgtaac aactttaaat cggccgaaga ttgcatgcgt acctgcggtg gcgccgctga
                                                                     360
aggtgatgat ccggccaagg cggccttcaa ttctctgcaa gcttctgcta ccgagtatat
                                                                     420
tqqttacqcq tgggccatgg tggtggttat cgttggtgct accatcggga tcaaactgtt
                                                                     480
caagaagttt acttcgaagg cgtcttaatg atagggttac cagtctaagc ccgcctaatg
                                                                     540
agcgggcttt ttttttatcg agacctgcag gcatgcaagc tt
                                                                     582
      220
<210>
<211>
      134
<212> PRT
<213> Artificial sequence
<220>
<223> synthetic peptide
<220>
<221> MISC FEATURE
<222>
      (132)..(132)
<223> where Xaa is a stop encoded by TAA
<220>
<221> MISC_FEATURE
<222>
      (133)..(133)
<223> where Xaais a stop encoded by TGA
<220>
<221> MISC FEATURE
<222>
      (134)..(134)
<223> where Xaa is a stop encoded by TAG
<400> 220
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Met Lys Lys Ser Leu Val Leu Lys Ala Ser Val Ala Val Ala Thr Leu 1 5 10 15

Val Pro Met Leu Ser Phe Ala Arg Pro Asp Phe Cys Leu Glu Pro Pro 20 25 30

Tyr Thr Gly Pro Cys Lys Ala Arg Ile Ile Arg Tyr Phe Tyr Asn Ala 35 40 45

Lys Ala Gly Leu Cys Gln Thr Phe Val Tyr Gly Gly Cys Arg Ala Lys 50 55 60

Arg Asn Asn Phe Lys Ser Ala Glu Asp Cys Met Arg Thr Cys Gly Gly 65 70 75 80

Ala Ala Glu Gly Asp Asp Pro Ala Lys Ala Ala Phe Asn Ser Leu Gln
85 90 95

Ala Ser Ala Thr Glu Tyr Ile Gly Tyr Ala Trp Ala Met Val Val 100 105 110

Ile Val Gly Ala Thr Ile Gly Ile Lys Leu Phe Lys Lys Phe Thr Ser 115 120 125

Lys Ala Ser Xaa Xaa Xaa 130

<210> 221

<211> 554

<212> DNA

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<220>

<223> synthetic oligonucleotide

<400> 221

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gtct	taa	tga t	aggg	jttac	cc aç	JLCLA	aged	: ege	cctaa	itga	cggg	jettt		LLLa	iccgag
acct	acctgcaggc atgc														
<210 <211 <212 <213	.>	222 134 PRT Artif	ficia	al se	equer	ıce									
<220 <223		synth	netio	pep	otide	=									
<220 <221 <222 <223	.> !>	MISC_ (132) where	(1	L32)	a st	cop e	encod	led b	oy T <i>F</i>	ΛA					
<220 <221 <222 <223	.> !>	MISC_ (133) where	(1	133)	a sto	op er	ıcode	ed by	/ TGA	Ā					
<220 <221 <222 <223	-> !>	MISC_ (134) where	(1	L34)	a st	op e	encod	led h	ру ТА	⁄G					
<400)>	222													
Met 1	Lys	Lys	Ser	Leu 5	Val	Leu	Lys	Ala	Ser 10	Val	Ala	Val	Ala	Thr 15	Leu
Val	Pro	Met	Leu 20	Ser	Phe	Ala	Arg	Pro 25	Asp	Phe	Cys	Leu	Glu 30	Pro	Pro
Tyr	Thr	Gly 35	Pro	Cys	Lys	Ala	Arg 40	Ile	Ile	Arg	Tyr	Phe 45	Tyr	Asn	Ala
Lys	Ala 50	Gly	Leu	Cys	Gln	Thr 55	Phe	Val	Tyr	Gly	Gly 60	Cys	Arg	Ala	Lys
Arg 65	Asn	Asn	Phe	Lys	Ser 70	Ala	Glu	Asp	Cys	Met 75	Arg	Thr	Cys	Gly	Gly 80
Ala	Ala	Glu	Gly	Asp 85	Asp	Pro	Ala	Lys	Ala 90	Ala	Phe	Asn	Ser	Leu 95	Gln
Ala	Ser	Ala	Thr 100	Glu	Tyr	Ile	Gly	Tyr 105	Ala	Trp	Ala	Met	Val 110	Val	Val
Ile	Val	Gly 115	Ala	Thr	Ile	Gly	Ile 120	Lys	Leu	Phe	Lys	Lys 125	Phe	Thr	Ser

Lys Ala Ser Xaa Xaa Xaa 130

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<220> <223>	synt	hetic oligo	onucleotide				
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cgttgct	gtc	gcgaccctgg	tacctatgtt	gtccttcgct	cgtccggatt	tctgtctcga	180
gccacca	atac	actgggccct	gcaaagcgcg	catcatccgc	tatttctaca	atgctaaagc	240
aggcctg	gtgc	cagacctttg	tatacggtgg	ttgccgtgct	aagcgtaaca	actttaaatc	300
ggccgaa	agat	tgcatgcgta	cctgcggtgg	cgccgctgaa	ggtgatgatc	cggccaaggc	360
ggcctt	caat	tctctgcaag	cttctgctac	cgagtatatt	ggttacgcgt	gggccatggt	420
ggtggtt	tatc	gttggtgcta	ccatcgggat	caaactgttc	aagaagttta	cttcgaaggc	480
gtcttaa	atga	tagggttacc	agtctaagcc	cgcctaatga	cgggcttttt	ttttatcgag	540
acctgca	aggc	atgcgacctg	caggtcgacc	ggcatgc			577
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						ctgtcgcgac	120
		atgttgtcct					180
gccctg	caaa	gcgcgcatca	tccgctattt	ctacaatgct	aaagcaggcc	tgtgccagac	240
ctttgt	atac	ggtggttgcc	gtgctaagcg	taacaacttt	aaatcggccg	aagattgcat	300
gcgtac	ctgc	ggtggcgccg	ctgaaggtga	tgatccggcc	aaggcggcct	tcaattctct	360
gcaagc	ttct	gctaccgagt	atattggtta	cgcgtgggcc	atggtggtgg	ttatcgttgg	420
tgctac	çatc	gggatcaaac	tgttcaagaa	gtttacttcg	aaggcgtctt	aatgataggg	480
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<220> <223>	synthetic oligonucleotide	
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agctcag	aa Saaraan Saaraan Saaraa	68
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cctatgt	<u>.</u>	67
<210><211><211><212><213>	228 70 DNA Artificial sequence	
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gcatcat	teeg	70
<210><211><211><212><213>	229 67 DNA Artificial sequence	
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<400> ctattte	229 ctac aatgctaaag caggcctgtg ccagaccttt gtatacggtg gttgccgtgc	60
taagcg	E	67
<210><211><212><212><213>	230 76 DNA Artificial sequence	

<220> <223>	synthetic oligonucleotide	
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gatccgg	gcca aggcgg	76
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ataggg	tta	69
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gatcccc	gat	69
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.400.	220	
<400>	238	
cgattta	aaag ttgttacgct tagcacggca accaccgtat acaaaggtct ggcacaggcc	60
+~~++		67
tgcttta	1	0/
.010	220	
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.000		
<220>		

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cagaaat	ccg			70	o
<210>	240				
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	DNA Artificial sequence				
<220>	symthetic elicenyalectide				
<223>	synthetic oligonucleotide				
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cgagcga	aagg acaacatagg taccagggtc g	gcgacagcaa	cgctagcctt	aagaaccaga 60	Э
gattt				65	5
<210>	241				
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1222	THE STATE STATES				
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ccggaag	gc			6	8
<210>	242				
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	-				
<220> <223>	synthetic oligonucleotide				
(223)	Dimension of Figure 1 and 1				
<400>	242 acta tgaag			1	5
aggetta	acta tyday			1.	9
0.1.0					
<210> <211>	243 13				
<212>	DNA				
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<220>					
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<400>	243				
	tege teg			1	3
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	-	
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ctatttc	ctac aatgc	15
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12137		
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aacaact	acce ducey	
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	246	
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	246 attc tctgc	15
		15
		15
ccttcaa		15
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Pro Val Thr Lys Ala Arg Thr
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                               25
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Ala Gly Thr Ala Asn Ala Glu
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Phe Cys Leu Pro Val Phe Ala His Pro
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<400> 254

Met Lys Ala Thr Lys Leu Val Leu Gly Ala Val Ile Leu Gly Ser Thr 10

Leu Leu Ala Gly Cys Ser 20

<210> 255

<211> 23

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<223> synthetic peptide

<400> 255

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His Ser Ala Glu Thr Val Glu 20

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<211> 21

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Val Pro Met Leu Ser Phe Ala Ala Glu Gly Asp Asp 20 25

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<211> 66

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actgtt
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His Ser Ala Glu Thr Val
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                                                                      66
actgtt
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<400> 264
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                                    10
                                                        15
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Gly Ala Glu Thr Val
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Gly Ala Glu Thr Va 20

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       77
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<221> MISC_FEATURE
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<223>
      where Xaa is a stop encoded by TAA
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                                    10
Gly Ala Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys
                                25
                                                     30
            20
Lys Ala Arg Ile Ile Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys
                            40
        35
Gln Thr Phe Val Tyr Gly Gly Cys Arg Ala Lys Arg Asn Asn Phe Lys
    50
                                             60
Ser Ala Glu Asp Cys Met Arg Thr Cys Gly Gly Ala Xaa
                    70
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      1480
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                                                                      120
gatttctgtc tcgagcccat acactgggcc ctgcaaagcg cgcatcatcc gctatttcta
                                                                      180
caatgctaaa gcaggcctgt gccagacctt tgtatacggt ggttgccgtg ctaagcgtaa
                                                                      240
caactttaaa toggoogaag attgoatgog tacotgoggt ggogooggog cogotgaaac
tgttgaaagt tgtttagcaa aaccccatac agaaaattca tttactaacg tctggaaaga
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cgacaaaact ttagatcgtt acgctaacta tgagggttgt ctgtggaatg ctacaggcgt
                                                                      360
tgtagtttgt actggtgacg aaactcagtg ttacggtaca tgggttccta ttgggcttgc
                                                                      420
                                                                      480
tatccctgaa aatgagggtg gtggctctga gggtggcggt tctgagggtg gcggttctga
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gggtggcqqt actaaacctc ctgagtacgg tgatacacct attccgggct atacttatat

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caaccetete gaeggeactt ateegeetgg taetgageaa aacceegeta ateetaatee
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                                                                      660
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                                                                     720
taggcagggg gcattaactg tttatacggg cactgttact caaggcactg accccgttaa
aacttattac cagtacactc ctgtatcatc aaaagccatg tatgacgctt actggaacgg
                                                                      780
                                                                      840
taaattcaga gactgcgctt tccattctgg ctttaatgag gatccattcg tttgtgaata
                                                                      900
tcaaggccaa tcgtctgacc tgcctcaacc tcctgtcaat gctggcggcg gctctggtgg
tggttctggt ggcggctctg agggtggtgg ctctgagggt ggcggttctg agggtggcgg
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                                                                     1020
                                                                     1080
ggcaaacgct aataaggggg ctatgaccga aaatgccgat gaaaacgcgc tacagtctga
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cgctaaaggc aaacttgatt ctgtcgctac tgattacggt gctgctatcg atggtttcat
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tggtgacgtt tccggccttg ctaatggtaa tggtgctact ggtgattttg ctggctctaa
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ttcccaaatg gctcaagtcg gtgacggtga taattcacct ttaatgaata atttccgtca
atatttacct teceteecte aateggttga atgtegeect tttgtettta gegetggtaa
                                                                     1320
accatatgaa ttttctattg attgtgacaa aataaactta ttccgtggtg tctttgcgtt
                                                                     1380
                                                                     1440
tcttttatat gttgccacct ttatgtatgt attttctacg tttgctaaca tactgcgtaa
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taaggagtct taatcatgcc agttcttttg ggtattccgt
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gtgagcgctc acaattgagc tctggaggaa ataaaatgaa gaaatctctg gttcttaagg
                                                                      120
                                                                      180
ctagegttge tgtegegace etggtaceta tgttgteett egetegteeg gatttetgte
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tcgagccacc atacactggg ccctgcaaag cgcgc
<210>
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<211>
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<212> PRT

<213> Bos taurus

<220>

<221> MISC FEATURE

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<223> where Xaa is a stop encoded by TAA

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<223> where Xaa is a stop encoded by TGA
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            20
Tyr Thr Gly Pro Cys Lys Ala Arg Ile Ile Arg Tyr Phe Tyr Asn Ala
        3.5
                            40
Lys Ala Gly Leu Cys Gln Thr Phe Val Tyr Gly Gly Cys Arg Ala Lys
    50
Arg Asn Asn Phe Lys Ser Ala Glu Asp Cys Met Arg Thr Cys Gly Gly
                    70
Ala Ala Glu Gly Asp Asp Pro Ala Lys Ala Ala Phe Asn Ser Leu Gln
                                    90
Ala Ser Ala Thr Glu Tyr Ile Gly Tyr Ala Trp Ala Met Val Val
Ile Val Gly Ala Thr Ile Gly Ile Lys Leu Phe Lys Lys Phe Thr Ser
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Lys Ala Ser Xaa Xaa Xaa
   130
<210> 269
<211> 543
<212> DNA
<213> Artificial sequence
<220>
<223> synthetic oligonucleotide
<400> 269
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ctcacaattg agctccatgg gagaaaataa aatgaaacaa agcacgatcg cactcttacc
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gttactgttt	acccctgtga	caaaagcccg	tccggatttc	tgtctcgagc	caccatacac	180
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gacctttgta	tacggtggtt	gccgtgctaa	gcgtaacaac	tttaaatcgg	ccgaagattg	300
catgcgtacc	tgcggtggcg	ccgctgaagg	tgatgatccg	gccaaggcgg	ccttcaattc	360
tctgcaagct	tctgctaccg	agtatattgg	ttacgcgtgg	gccatggtgg	tggttatcgt	420
tggtgctacc	atcgggatca	aactgttcaa	gaagtttact	tcgaaggcgt	cttaatgata	480
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gac						543

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<211> 1480

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<220>

<223> synthetic oligonucleotide

<400> 271

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Val Pro Met Leu Ser Phe Ala Arg Pro Asp Phe Cys Leu Glu Pro Pro 20 25 30

Tyr Thr Gly Pro Cys Lys Ala Arg Ile Ile Arg Tyr Phe Tyr Asn Ala 35 40 45

Lys Ala Gly Leu Cys Gln Thr Phe Val Tyr Gly Gly Cys Arg Ala Lys 50 55 60

Arg Asn Asn Phe Lys Ser Ala Glu Asp Cys Met Arg Thr Cys Gly Gly 65 70 75 80

Ala Ala Glu Gly Asp Asp Pro Ala Lys Ala Ala Phe Asn Ser Leu Gln 85 90 95

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Ile Val Gly Ala Thr Ile Gly Ile Lys Leu Phe Lys Lys Phe Thr Ser 115 120 125

Lys Ala Ser 130

<210> 274

<211> 23

<212> PRT

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<220>

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<400> 274

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Gly Ser Tyr Gly Tyr Cys Tyr 20

<210> 275

<211> 21

<212> PRT

<213> Artificial sequence

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<400> 275

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Pro Val Thr Lys Ala
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<400> 276
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Leu Lys Lys Ser
<210> 278
<211> 5
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Leu Ser Ser Ser Gly
<210> 279
<211> 27
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               5
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<210> 282
<211> 99
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                                                                     99
gtcgcgaccc tggtaccgat gctgtctttt gctcgtccg
<210> 283
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<400> 284
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<220> <221> misc_feature <222> (57)..(57) <223> where n has an equal probability of bein T or A <220> <221> misc_feature

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      (57)..(57)
<223> where n can be any nucleotide with the following probabilities:
       (.26 T, .18 C, .26 A, and .30 G)
<220>
<221>
      misc_feature
<222>
      (58)..(58)
<223> where n can be any nucleotide with the following probabilities:
       (.22 T, .16 C, .40 A, and .22 G)
<220>
<221> misc_feature
<222> (59)..(59)
<223> where n has an equal probability of being T or G
<220>
<221> misc_feature
<222> (66)..(66)
<223> where n can be any nucleotide with the following probabilities:
      (.26 T, .18 C, .26 A, and .30 G)
<220>
<221> misc_feature
<222> (67)..(67)
<223> where n can be any nucleotide with the following probabilities:
       (.22 T, .16 C, .40 A, and .22 G)
<220>
<221> misc feature
<222> (68)..(68)
<223> where n has an equal probability of being T or G
<220>
<221> misc feature
<222> (69)..(69)
<223> n is a, c, g; or t
<220>
<221> misc feature
<222> (70)..(70)
<223> where n can be any nucleotide with the following probabilities:
       (.22 T, .16 C, .40 A, and .22 G)
<220>
<221> misc feature
<222> (71)..(71)
<223> where n has an equal probability of being T or G
<220>
<221> misc_feature
<222>
      (79)..(79)
<223>
      where n can be any nucleotide with the following probabilities:
       (.26 T, .18 C, .26 A, and .30 G)
<400>
      285
cggcacgcgg gccctgcnna gcggatnnac agnnntnttt ctacaacgct aaagagnnnc
                                                                      60
                                                                      94
tgtgcnnnnn nttttcgtac ggtggttgcc gtgc
```

<210> 286 <211> 71

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<213> Artificial sequence
<220>
<223> synthetic oligonucleotide
<220>
<221> misc_feature
<222>
      (18)..(18)
<223> where n has an equal probability of being A, C, or G
<220>
<221> misc_feature
<222> (19)..(19)
<223> where n has an equal probability of being A or C
<220>
<221> misc feature
<222> (24)..(24)
<223> where n has an equal probability of being A, C, or G
<220>
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<222> (25)..(25)
<223> where n has an equal probability of being A or C
<220>
<221> misc feature
<222> (42)..(42)
<223> where n can be any nucleotide with the following probabilites:
      (.26 T, .18 C, .26 A, and .30 G
<220>
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<222> (43)..(43)
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       (.22 T, .16 C, .40 A, and .22 G)
<220>
<221> misc_feature
<222>
     (44)..(44)
<223> where n has an equal probability of being T or G
<220>
<221> misc_feature
<222> (55)..(55)
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<220>
<221> misc_feature
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      (56)..(56)
<223> where n has an equal probability of being T or G
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cgagcctgct cgagccgnng tatnnggggc cctgcgaggc gnnngttcag aattnnttct
                                                                     60
                                                                     71
acaacgccaa g
<210> 287
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<210> 287
<211> 13

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      (4)..(10)
<223> where n can be any nucleotide
<400> 287
                                                                     13
ccannnnnn tgg
<210> 288
<211> 13
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<220>
<221> misc_feature
<222> (5)..(9)
<223> where n can be any nucleotide
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                                                                     13
ggccnnnnng gcc
<210> 289
<211> 12
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<223> synthetic oligonucleotide
<400> 289
                                                                     12
ggaggaaata aa
<210> 290
<211> 8
<212> PRT
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Pro Cys Val Ala Met Phe Gln Arg
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<210> 291
<211> 9
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<223> synthetic peptide
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Pro Cys Val Gly Phe Phe Ser Arg Tyr
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Pro Cys Val Gly Phe Phe Gln Arg Tyr
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<223> synthetic peptide
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Pro Cys Val Ala Met Phe Pro Arg Tyr
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Pro Cys Val Ala Ile Phe Pro Arg Tyr
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Pro Cys Ile Ala Leu Phe Lys Arg Tyr
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Ala Ala Ala Gly Cys Gly Cys Gly Cys Ala Thr Cys Ala Thr Cys
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<400> 295

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Met Gly Phe Ser Lys
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Met Ala Leu Phe Lys
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Phe Ala Ile Thr Pro
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<223> synthetic peptide
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<400> 304
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Met Ala Leu Phe Gln
1 5

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Met Ala Ile Ser Pro 1 5